

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the Application.

Listing of Claims:

Claims 1-84 (cancelled).

Claims 85-104 (new) as set forth on pages 3-6 of this Amendment.

CLAIMS:

Please cancel prior Claims 75-84 without prejudice and add new claims as follows:

Claim 85 (new). A milking compartment for confining and milking an animal therein which comprises:

a milking robot for automated milking of said animal in said compartment;

a feeding trough for feeding said animal while it is being milked; and

cooling means for cooling said animal while it is in said milking compartment, said cooling means being disposed over said animal, said cooling means comprising a plurality of nozzles that provide a fine spray of atomized water which produces a wetted area substantially on the back only of said animal while in said compartment, and an air displacing means that provides a cooling air flow on said wetted area.

Claim 86 (new). A milking compartment in accordance with Claim 85, wherein said wetted area comprises water which is between hairs of said animal and there are substantially no unevenly long droplets on said wetted area.

Claim 87 (new). A milking compartment in accordance with Claim 85 which further comprises detection and securing means that secures said spray when any unevenly long droplets of water are detected on said wetted area.

Claim 88 (new). A milking compartment in accordance with Claim 85, wherein said air displacing means comprises air flow controlling means that controls the velocity of the air which is displaced by said air displacing means.

Claim 89 (new). A milking compartment in accordance with Claim 85, comprising means for determining whether said animal is undergoing thermal stress.

Claim 90 (new). A milking compartment in accordance with Claim 89, wherein said means for determining thermal stress comprises a camera.

Claim 91 (new). A milking compartment in accordance with Claim 89, wherein said means for determining thermal stress comprises a hydrometer.

Claim 92 (new). A milking compartment in accordance with Claim 89, wherein said means for determining thermal stress comprises an odor meter.

Claim 93 (new). A device for cooling milk producing animals which is mounted in a compartment for positioning at least one said animal therein, the device comprising a nozzle disposed to be over a said animal which is positioned in said compartment, said nozzle producing a fine spray of atomized water which is directed so that substantially no part of said animal which is positioned in said compartment receives said spray other than on its back and the quantity of water of said spray is limited to be received in spaces between the hairs on said animal's back and not as unevenly long droplets thereon, and an air displacing means that blows air over the back of said animal while it is positioned in said compartment to cool said animal by promoting the evaporation of said water from where it has been sprayed on said animal's back.

Claim 94 (new). A device in accordance with Claim 93, wherein said compartment is a milking compartment which comprises a robot for milking said animal, a feeding trough for feeding concentrate to said animal, and shield means for preventing any of said sprayed water being received on said animal's udder and teats.

Claim 95 (new). A device in accordance with Claim 93, comprising securing means for securing said spray when any unevenly long droplets of water begin to form on the back area of said animal positioned in said compartment.

Claim 96 (new). A device in accordance with Claim 93, comprising means for determining whether said animal positioned in said compartment is undergoing thermal stress which consists of a camera, or a hydrometer or an odor meter, or any combination thereof.

Claim 97 (new). A device in accordance with Claim 93, comprising air flow controlling means for controlling the velocity of the air blown by said air displacing means.

Claim 98 (new). A device for cooling milk producing animals which comprises wetting means comprising motor-drivable brushes that are provided with water supplied to said motor drivable brushes while being operated, a milking compartment, pivotable arms connected to said milking compartment, said motor-drivable brushes disposed on said pivotable arms, air displacing means operatively associated with said motor-drivable brushes, said motor drivable brushes having axes that extend generally horizontally and transversely across the back of an animal received in said milking compartment for being milked and so that the surface of said animal that is wetted by said wetting means is substantially limited to the back of said animal, and air from said air displacing means being directed over said wetted surface of said animal after or during the brushing of said animal by said motor-drivable brushes.

Claim 99 (new). A device in accordance with Claim 98 comprising shielding means that shields said animal's udder and teats from said water that is supplied to said motor drivable brushes during operation of the device.

Claim 100 (new). A device in accordance with Claim 98, comprising an air flow controlling means for controlling the velocity of the air which is displaced by said air displacing means.

Claim 101 (new). A device in accordance with Claim 98 comprising a milking robot in said milking compartment.

Claim 102 (new). A device in accordance with Claim 98, comprising means for determining whether said animal received in said milking compartment is undergoing thermal stress which consists of a camera, or a hydrometer or an odor meter or any combination thereof.

Claim 103 (new). A device in accordance with Claim 102, wherein said camera is an infrared camera.

Claim 104 (new). A device in accordance with Claim 98, wherein two side-by-side said motor-drivable brushes are carried by said pivotable arms so as to be pivotable relative thereto on the back of said animal in said compartment in unison.
